

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet  
Spring 2014 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0016**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	4.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/18/2014 - 03/18/2014			
DWR Inspector	Matthew Hoffman			
Accompanied By	Jason Cooper Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_MA0016_01_s _ 2013_3				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_MA0016_01_s _ 2013_4				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_MA0016_01_s _ 2013_5				
Action/Comments					

No Photos

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	0.06	Rating **	M	Issue No.	2
LM End	0.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.256618 °	39.257228 °
				-121.636442 °	-121.636462 °
DWR ID	DWR_MA0016_01_s _ 2012_2				
Action/Comments					
Landscaping					

Photo 1 of 1 : mhoffman\_s\_20140306\_089.jpg



Levee mile 0.10. This photo shows the landscaping on the landside slope and toe.

LM Start	0.18	Rating **	M	Issue No.	15
LM End	0.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.258437 °	39.258437 °
				-121.636613 °	-121.636613 °
DWR ID	DWR_MA0016_01_s _ 2012_15				
Action/Comments					
Building					

Photo 1 of 1 : mhoffman\_s\_20140306\_093.jpg



Levee mile 0.18. This photo shows the building on the landside shoulder and toe.

LM Start	0.24	Rating **	M	Issue No.	20
LM End	0.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.259173 °	39.259173 °
				-121.636667 °	-121.636667 °
DWR ID	DWR_MA0016_01_f _ 2013_20				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

\* Location  
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WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	0.25	Rating **	C	Issue No.	21
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.259325 °	39.259325 °
				-121.636672 °	-121.636672 °
DWR ID	DWR_MA0016_01_f _ 2013_21				
Action/Comments					
Prunings					
Inspector Comments: Pruning pile on landward levee slope.					

No Photos

LM Start	0.45	Rating **	U	Issue No.	7
LM End	0.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.262213 °	39.262825 °
				-121.636545 °	-121.636430 °
DWR ID	DWR_MA0016_01_s _ 2012_7				
Action/Comments					
Building					

Photo 1 of 1 : mhoffman\_s\_20140306\_090.jpg



Levee mile 0.49. This photo shows the building and landscaping on the landside slope and toe.

LM Start	1.14	Rating **	C	Issue No.	22
LM End	1.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.272014 °	39.272014 °
				-121.633835 °	-121.633835 °
DWR ID	DWR_MA0016_01_f _ 2013_22				
Action/Comments					
Pole					
Inspector Comments: Old wooden power pole in the landward slope of the levee cut off approx. 1' above ground level. Should be removed.					

No Photos

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LS : Land Side  
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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	1.16	Rating **	U	Issue No.	11
LM End	1.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.272228 °	39.272228 °
				-121.633721 °	-121.633721 °
DWR ID	DWR_MA0016_01_s _ 2014_11				
Action/Comments					
Debris					

Photo 1 of 1 : mhoffman\_s\_20140320\_267.jpg



This photo was taken from the levee crown facing north looking at leftover concrete poured on the landward slope. Spring 2014.

LM Start	1.44	Rating **	M	Issue No.	1
LM End	1.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.276170 °	39.276170 °
				-121.632598 °	-121.632598 °
DWR ID	DWR_MA0016_01_s _ 2014_1				
Action/Comments					
Inspector Comments: FS_ID:23766					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Inlet heavily vegetated may need to be cleared					
on 5/14/2013 SBFCA project recommends replacing in accordance					
with title 23/14/2013 Same as last inspection 11/6/2013 Same as					
last inspection.					
FIELD_STRUCT_DESC: 36 inch steel drain pipe approximately 16-feet					
below the crown. Headwall and Model No. 100 flapgate of WS toe.					
Headwall and 24-inch concrete standpipe drop-inlet located					
approximately 1000-feet west of levee crown just on west side of canal.					
O&M Sac 148 Revision: February 2011					
FS Date: 11/8/2013 7:08:59 AM					

Photo 1 of 1 : UCIP\_3638.jpg



WS headwall and flapgate at WS toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	1.64	Rating **	M	Issue No.	12
LM End	1.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.278978 °	39.278978 °
				-121.633278 °	-121.633278 °
DWR ID	DWR_MA0016_01_s _ 2014_12				
Action/Comments					
Prunings Inspector Comments: Dead Prune trees placed on landward levee slope. Spring 2014.					

Photo 1 of 1 : mhoffman\_s\_20140320\_268.jpg



This photo was taken from the levee crown facing north looking at prunings and a dead tree placed at the landward levee toe. Spring 2014.

LM Start	1.70	Rating **	M	Issue No.	6
LM End	1.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.279812 °	39.279812 °
				-121.632987 °	-121.632987 °
DWR ID	DWR_MA0016_01_s _ 2014_6				
Action/Comments					
Inspector Comments: FS_ID:26393					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe is partially buried at LS toe and shows heavy corrosion. Unable to locate headwalls on either side of levee. Pipe should be cleared of soil and inspected (suspect heavy corrosion throughout pipe). 5/14/2013 SBFCA project recommends replacing in accordance with title 23/14/2013 Same as last inspection. 11/6/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 12-inch CM Storm drain pipe through the levee 14.5 feet below the crown. Slide gate on the waterward end. (O&M entry-As built available 50-4-2193A).					
FS Date: 1/6/2014 9:47:27 AM					

Photo 1 of 1 : UCIP\_5266.jpg



Pipe at LS inlet showing heavy silt and corrosion of pipe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	1.93	Rating **	C	Issue No.	23
LM End	2.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.282979 °	39.289739 °
				-121.631590 °	-121.631836 °
DWR ID	DWR_MA0016_01_f_2013_23				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.84	Rating **	C	Issue No.	24
LM End	2.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.293636 °	39.293636 °
				-121.636411 °	-121.636411 °
DWR ID	DWR_MA0016_01_f_2013_24				
Action/Comments					
Prunings					

No Photos

LM Start	2.85	Rating **	M	Issue No.	14
LM End	3.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.293675 °	39.296748 °
				-121.636615 °	-121.638192 °
DWR ID	DWR_MA0016_01_s_2012_14				
Action/Comments					
Ditch					

Photo 1 of 2 : mhoffman\_s\_20140306\_091.jpg



Land side ditch levee mile 3.08.

**\* Location**

LS : Land Side  
WS : Water Side  
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**\*\* Rating**

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**+ Issue Type**

Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	2.85	Rating **	M	Issue No.	14 (cont)
LM End	3.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.293675 °	39.296748 °
				-121.636615 °	-121.638192 °
DWR ID	DWR_MA0016_01_s _ 2012_14				
Action/Comments					
Ditch					

Photo 2 of 2 : mhoffman\_s\_20140306\_092.jpg



Agricultural ditch land side slope and toe.

LM Start	2.86	Rating **	M	Issue No.	8
LM End	2.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.293774 °	39.293774 °
				-121.636612 °	-121.636612 °
DWR ID	DWR_MA0016_01_s _ 2014_8				
Action/Comments					
Inspector Comments: FS_ID:23772					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Inlet and outlet largely covered in sediment and vegetation. This should be cleared 5/14/2013 SBFCA project recommends replacing in accordance with title 23/14/2013 Same as last inspection 11/6/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 18-inch concrete pipe through the levee approximately 15-feet below the crown. Headwalls on both ends and a Model No. 100 slide gate on WS toe. O&M Sac 148 Revision: February 2011.					
FS Date: 11/8/2013 7:30:12 AM					

Photo 1 of 1 : UCIP\_3640.jpg



Slide gate and headwall at WS toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	2.87	Rating **	M	Issue No.	25
LM End	2.87	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.293865 °	39.293865 °
				-121.636690 °	-121.636690 °
DWR ID	DWR_MA0016_01_f_2013_25				
Action/Comments					
Landscaping					

No Photos

LM Start	3.11	Rating **	C	Issue No.	26
LM End	3.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.297237 °	39.297237 °
				-121.638315 °	-121.638315 °
DWR ID	DWR_MA0016_01_f_2013_26				
Action/Comments					
Debris Inspector Comments: Irrigation pipe on the landward slope of the levee should be removed.					

No Photos

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
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M : Minimally Acceptable  
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N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.09	03/18/2014 03/18/2014	Matthew Hoffman

LM Start	3.39	Rating **	M	Issue No.	9
LM End	3.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.301218 °	39.301218 °
				-121.638332 °	-121.638332 °
DWR ID	DWR_MA0016_01_s_2014_9				
Action/Comments					
Inspector Comments: FS_ID:23774					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovered 5/14/2013 SBFCA project recommends replacing in accordance with title 23/14/2013 Same as last inspection 1/6/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 2: 24-inch CMP drain pipe through the levee 16.6-feet below the crown. Headwalls at both ends and a Flap gate on the WS toe.					
FS Date: 11/8/2013 7:31:05 AM					

Photo 1 of 1 : UCIP\_3645.jpg



Headwall and flap gate on WS toe.

LM Start	3.39	Rating **	M	Issue No.	10
LM End	3.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.301218 °	39.301218 °
				-121.638332 °	-121.638332 °
DWR ID	DWR_MA0016_01_s_2014_10				
Action/Comments					
Inspector Comments: FS_ID:23773					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Concrete headwall on LS toe is cracked through middle and pipe is burried in soil. pipe appears corroded5/14/2013					
SBFCA project recommends replacing in accordance with title					
23/14/2013 Same as last inspection11/6/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 1 of 2: 24-inch CMP drain pipe 16.6-feet below the crown. Concrete headwalls on both ends. Flap gate on the waterward end.					
FS Date: 11/8/2013 7:30:35 AM					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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